

## **SECTION C**

### **DESCRIPTION/SPECIFICATIONS/WORK STATEMENT**

#### **1. BACKGROUND**

As one of the nation's principal conservation agencies, the National Park Service (NPS) has the responsibility to protect some of our most treasured natural and cultural resources. In order to preserve these treasures it is important that they be interpreted in ways that help NPS visitors experience them, understand them, and appreciate their value. It is also important that those who visit National Park sites be assured that their visits are safe and enjoyable.

Since its earliest days, the NPS has relied on a variety of interpretive media to assist in the effort to protect its resources and to assure the pleasure and safety of its visitors. Among the various media used by the NPS, wayside exhibits provide the most direct interpretation of park sites and features. Because they are located in a park's outdoor environment, "waysides" offer immediate -- and readily available -- sources of information tailored to a specific place and time.

No other interpretive medium can match the power of direct association of information and resource, or the convenience of on-site location.

Currently, NPS wayside exhibit panels are produced in a limited number of standard sizes and configurations. Exhibit panels are usually made in either of three sizes (24" w x 36" h, 24" w x 2" h, or 36" w x 48" h) and in either of two materials, fiberglass embedded screen imaged paper, or porcelain-enameled steel panels.

#### **2. PURPOSE**

The purpose of this Contract is to provide a vehicle for the fabrication of exhibit quality porcelain enamel imaging on a variety of substrates intended for outdoor use.

All work to be performed under this Contract will be directed by the issuance of Task Orders in accordance with procedures outlined in Section G. In no event will the Government be responsible for any work performed by the Contractor that is not undertaken pursuant to a duly executed Task Order signed by the Contracting Officer.

### 3. **SCOPE OF WORK**

Independently, and not as an agent of the Government, the Contractor shall provide all labor, materials, equipment and facilities (except as otherwise specified) necessary to provide exhibit quality porcelain enamel imaging on a variety of substrates intended for outdoor use. Other services related to the rehabilitation of porcelain enamel exhibits, including graphic layout, film mechanical preparation and final exhibit panel inspection and finishing are also a part of this contract.

Specifically, the following services are required:

#### A. **PORCELAIN ENAMEL IMAGING**

- (1) Image in tight register in up to nine (9) colors on a panel size range from 6" x 9" x 42" x 72".
- (2) Capacity to handle the above described imaging in a group of subjects (average 30 subjects) comprising one job. From one to four identical additional copies of each subject may be required at the time of the initial production. All production phases of the work described shall be concurrent and continuous.
- (3) Fuse glass (enamel) to various substrates including enameling steel, stainless steel and plate glass.
- (4) Image four-color process images in perfect registration of separation rulings from 55 to 150 lines per inch.
- (5) Image fine line detail including mezzotint and other special effect conversion screens, 150 line half-tones and duo-tones, and 6 pt. serif type faces without discernable saw-tooth edge or other character defects.
- (6) In-house capability to accomplish the required mechanical and chemical substrate preparation prior to imaging.
- (7) In-house capability to fabricate, image and reclaim screens.
- (8) In-house capability to mix, apply, expose, develop and fix enamel bearing photosensitive emulsions.

- (9) Mix and match enamel colors to PMS color specifications or Government-Furnished color swatches.
- (10) Furnish high quality color enhancement (hand painting) of line illustrations.
- (11) Facilities and equipment required to prepare films, mix and match colors, fabricate screens, image screen stencils, screen print, apply presensitized coatings, prepare metal for the enameling process, and image and fire porcelain enamel exhibits.

**B. FILM PREPARATION**

The preparation of film mechanicals (positives and negatives) to include the development of graphic layouts based on Government-Furnished design concepts. This phase is intended to support the production of the previously described porcelain enamel imaging and will involve specifically:

- (1) Creation of original layouts (exhibit designs), based on design concepts furnished by the Government.
- (2) Preparation of original black and white and full color illustrations and photographic images for reproduction, i.e., the intermediate photomechanical steps required to convert original images into the necessary film form for porcelain enamel imaging.
- (3) Type specification.
- (4) Table work to include paste up, negative stripping, and assembly of film positive and negative elements into final color separated and registered format required for porcelain enamel imaging.